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**PHOTOGRAPHIC
INTERPRETATION
REPORT**

**NATIONAL PHOTOGRAPHIC
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**SA-6 MISSILE DEPLOYMENT
ASWAN, EGYPT**

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TOP SECRET RUFF**SA-6 MISSILE DEPLOYMENT
ASWAN, EGYPT****INTRODUCTION**

1. SA-6 surface-to-air missile (SAM) launch sites were identified near Aswan, Egypt, [REDACTED] This is the first deployment of this Soviet missile system that has been observed anywhere in the world. It is also the first time that SA-6 SAM equipment has been observed outside the USSR. SA-6 equipment has been observed in the USSR at only three installations where it was being tested or used for training. At Aswan, this highly mobile missile system was deployed in a point defense utilizing eight prepared sites, five occupied and three unoccupied, and an acquisition radar area (Figure 1).

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BASIC DESCRIPTIONTypes of Sites

2. Two types of SA-6 sites were observed at Aswan. One type of site was positioned around a previously existing SA-2 or SA-3 site, and the other type was constructed specifically for the SA-6 system.

3. Three of the eight SA-6 sites observed at Aswan were of the type positioned around a previously existing SAM site. These were Sites 486, 490, and 510 (Figure 1). A typical site consisted of four concrete-lined, drive-in SA-6 launch revetments positioned around an SA-2 or SA-3 site and an SA-6 tracking and guidance radar positioned in the guidance area of the original site. An example of this type of site is presented on Figure 2. Each of the three sites had an onsite support area, and the launch and missile-hold positions of the original sites were being used for storage of SA-6 support equipment.

4. Five of the sites observed at Aswan were of the type constructed specifically for the SA-6 system. These were Sites 487, 488, 489, 491, and 492 (Figure 1). A site of this type consisted of four concrete-lined, drive-in launch revetments situated around a three-position revetted guidance area, a probable command and headquarters area, an onsite support area, and several U-shaped equipment-hold revetments. Examples of this type of site are presented on Figures 3 and 4.

Launch Positions

5. The four launch revetments at each of the eight SA-6 sites were situated at different distances from the guidance area within each site. At Aswan SAM Site A22-6 (Figure 3) for instance, the distances from launch revetments to the guidance area were respectively 372, 175, 279, and 307 meters (1,221, 575, 915, and 1,007 feet), a maximum variation in distance of 197 meters (646 feet). The SA-6 launch revetments measured approximately 7.6 meters (25 feet) long and 4.6 meters (15 feet) wide. In all cases the open ends of the launch revetments faced the guidance area. At the occupied sites, the transporter-erector-launchers (TEL) appeared to have been backed into the launch positions. Each TEL was connected by cabling to the tracking and guidance area. A personnel bunker with a single entrance was near each launch revetment at six of the sites, including the five constructed specifically for the SA-6 system. An illustration of a typical launch revetment and its nearby personnel bunker is presented on Figure 5.

Guidance Areas

6. At the sites constructed specifically for the SA-6 missile system, the guidance areas each contained three concrete-lined,

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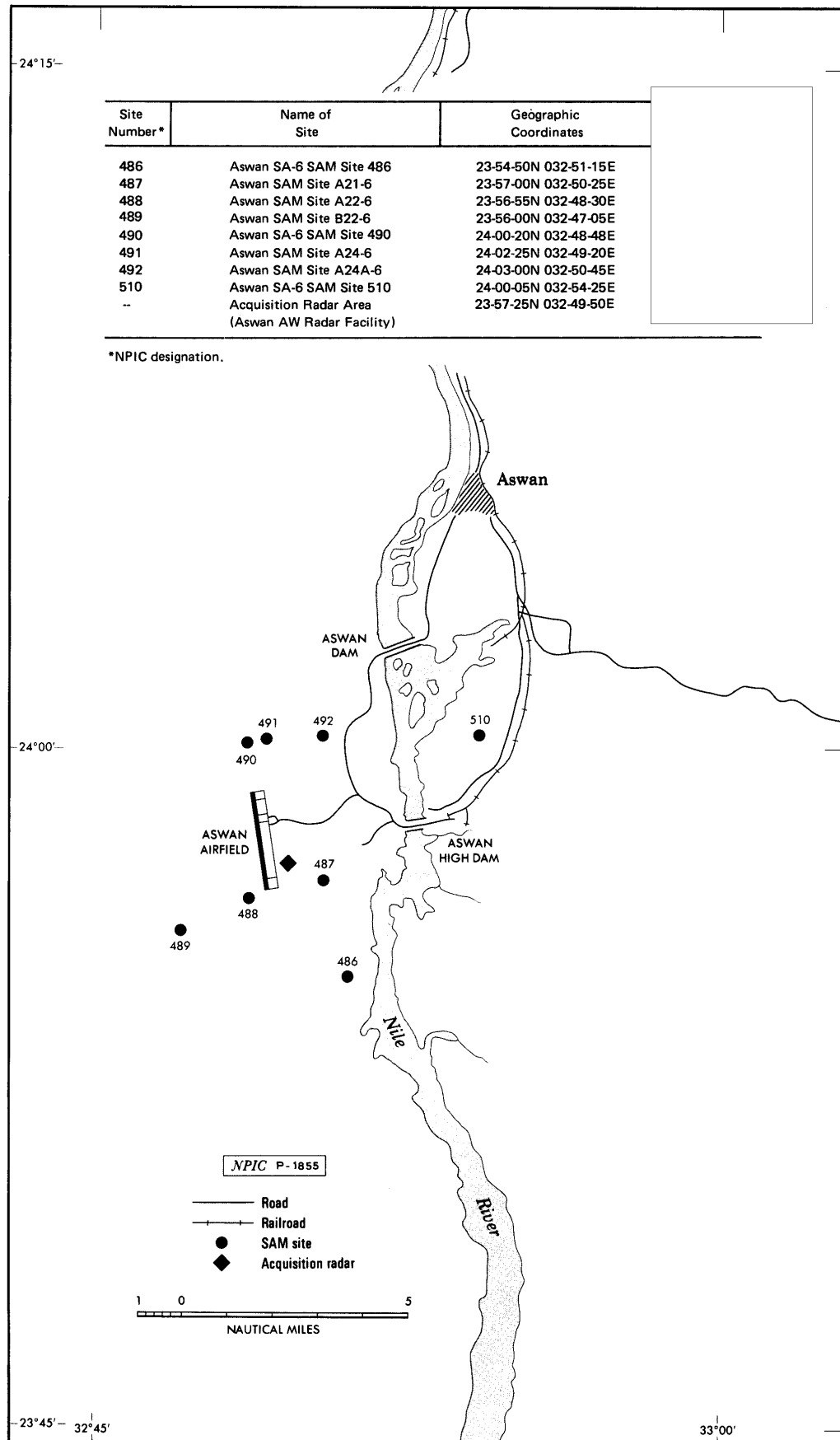
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FIGURE 1. LOCATION MAP

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drive-in revetments. The location of each revetment in relation to the others was slightly different at each site, but the center revetment was always used for the tracking and guidance radar, and the two flanking revetments were used for the radar-associated support equipment. Four personnel bunkers, each with two entrances, were positioned around the three revetments in the guidance area of each site. An example of a typical guidance area containing the three revetments and the four personnel bunkers is presented on Figure 6.

Probable Command and Headquarters Area

7. A probable command and headquarters area was observed at each of the sites constructed specifically for the SA-6 missile system. A typical area illustrated on Figure 7 contained six personnel bunkers, four with two entrances each and two with one entrance each. The location of this area with respect to other components of the site differed slightly at each site, but it was usually near the onsite support area. At least one BRDM-2 amphibious scout car was identified at each of three of the occupied SA-6 launch sites, and it is believed to be the site commander's vehicle.

Onsite Support Area

8. An onsite support area was observed at each of the eight SA-6 launch sites deployed in the Aswan area. Although slight variations were observed, a typical onsite support area contained one main support building, five small support buildings, and from three to five U-shaped, drive-in, equipment-hold revetments (Figure 8).

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A personnel bunker with a single entrance was situated near each main support building, and a second personnel bunker with a single entrance was observed at some of the onsite support areas.

Equipment at Occupied Sites

9. Equipment observed in most cases at each occupied SA-6 site was as follows:

In Launch Revetments

Four transporter-erector-launchers, each with three missiles

In the Guidance Area

One tracking and guidance radar
One van trailer
One truck-mounted unidentified piece of equipment

In the Onsite Support Area

Two POL trucks
One unidentified cab-over-engine truck
One water trailer
Three or four cargo trucks

Dispersed within the Site

Two transloaders (at least)
One BRDM-2 amphibious scout car

Acquisition Radar Area

10. The acquisition radar system associated with the SA-6 missile system consists of the LONG TRACK acquisition radar and the THIN SKIN height-finding radar. Two LONG TRACK radars and one THIN SKIN radar were identified in the Aswan area

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(Figure 9). One of the LONG TRACK radars and the THIN SKIN radar were observed on newly constructed radar mounds at the Aswan Air Warning Radar Facility [REDACTED], and the second LONG TRACK radar was in a drive-in revetment about 457 meters (1,500 feet) west-northwest of the LONG TRACK radar on the mound. No evidence of land lines or cabling was observed between the acquisition radar area and the deployed SA-6 launch sites. The location of this area with respect to the launch sites is shown on the map, Figure 1.

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REFERENCES

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MAPS OR CHARTS

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REQUIREMENT

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